yamakawa™

HDTV compatible LCD-TV

LM-17W / LT-17W

User's Guide

Contents

Enhanced Features

Variable Gain Control Technology
Most LCD-TV use backlight to adjust the brightness of the picture without considering the adjustment of the contrast level. Our LCD-TV adopts the "Variable Gain Control" technology to adjust the brightness, which will maintain the best possible contrast level at any brightness level chose.

3D Digital Chroma Trap Filter
The 3D Digital Chroma Trap Filter realizes the best Y/C separation to achieve clear color differentiation around edges between different colors.

Improved-Response Circuit
This self-developed circuit improves the response time of the picture and delivers more clear images.

Noise Reduction Technique
To fix the background noise problem, we have developed a noise reduction technique that will minis the background noise of the TV signal.

Environmental
Low power consumption will prolong the life of the products. Standby power consumption at 1W is also a unique design.

SRS Sound Effect
With special circuit design the SRS sound effect is enhanced under the Nicam Stereo Sound environment and can imitate the SRS effect under the Mono environment

General Safety Precautions

This monitor/TV has been engineered and manufactured to assure your safety, and You can prevent your safety from serious electrical shock and other hazards by Keeping in the following attentions.

1. Do not place heavy, wet or magnetic on the LCD or the power cord. Never cover the ventilation openings with any material and never touch them with metallic of inflammable materials.

2. Avoid operating the monitor in the place extremely heated, humid or affected by dust. Avoid suffering water drop.
Temperature : 0~40℃   Humidity :   30~80RH

3. This product is intended to be used with Listed ITE power supply marked "LPS" or Listed power unit marked "Class 2", rated output 12 VDC, 4.0A. Make sure that the power cord and the other cords are securely connected.
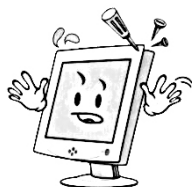
4. Do not use the sharp tool such as pin or pencil to avoid the scratch on the LCD surface.

5. Do not use the solvent such as benzene to clean the monitor. It will damage to LCD surface.
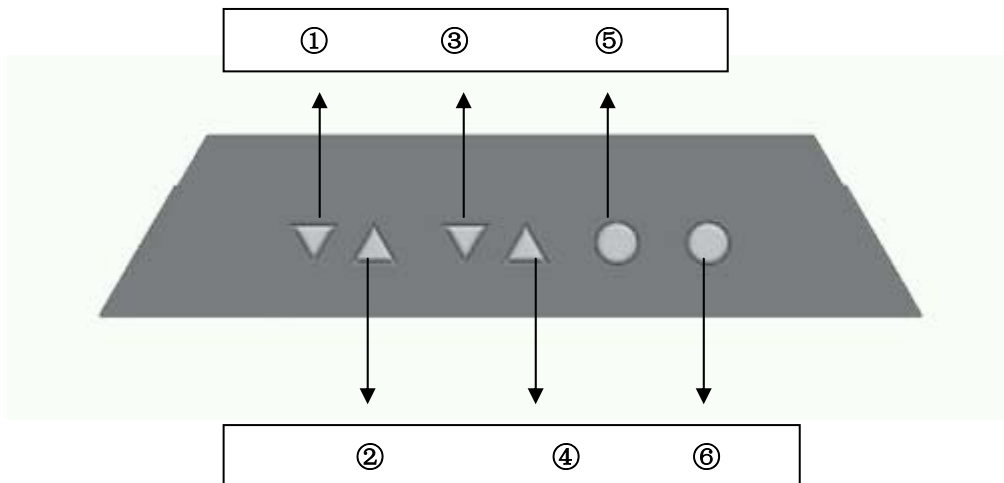
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6. Unplug the LCD during lighting storms or when unused for long periods of time.

7. Do not open the LCD. There are no user serviceable components inside. There is dangerous high voltage inside, even when power is off. If the display monitor does not operate properly, remove the power cord from the wall outlet, and contact your dealer. Careless use and un-professional maintenance are able to cause serious.

Control Description

①: **VOL⁻**
②: **VOL⁺**
③: **CH-**
④: **CH+**
⑤: **Menu**
⑥: **Power**

OSD Control:

Step 1:
    Start press the ⑤**MENU** key to enable the OSD MENU.
Step 2:
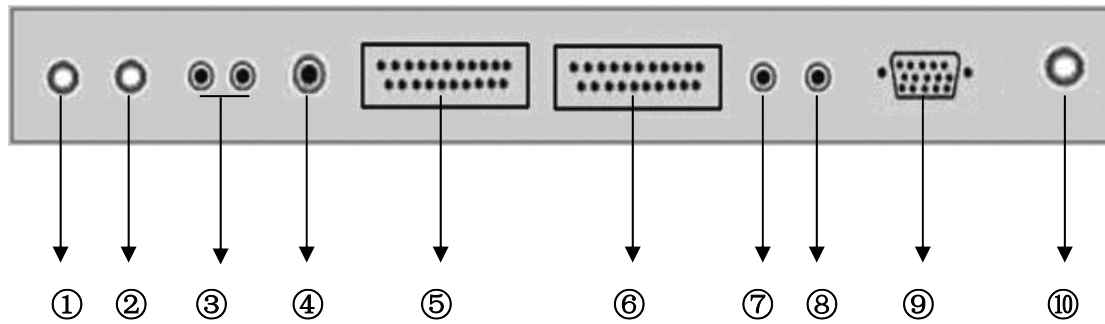   Press the ③**CH⁻ /** ④**CH⁺** Move menu Bar to be adjusted.
Step 3:
    Press the ①**VOL⁻ /** ②**VOL⁺** key to adjust the value.
Step 4:
    Press ⑤**MENU** key to exit.

Connector

Remarks:

① POWER INPUT

② LINE OUTPUT

③ AV AUDIO IN

④ PC AUDIO IN

⑤ SCART 1

⑥ SCART 2

⑦ S-VIDEO INPUT

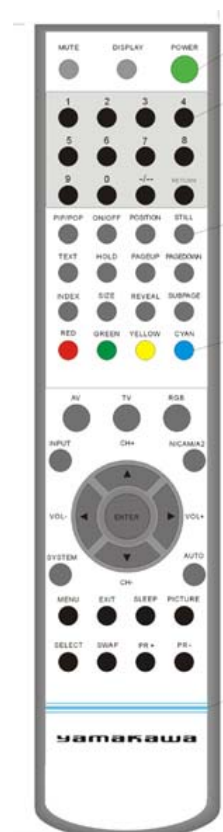⑧ AV INPUT

⑨ PC INPUT

⑩ TV INPUT

5 - Remote control functions

1) POWER : to switch TV on / off.

2) MUTE : to mute or restore the sound.

3) DISPLAY : to display the functions on the screen.

4) INPUT : to activate the LCD on Tuner, AV1 and AV2 mode.

5) SYSTEM : to change the reception system of the multistandard programs.

6) NICAM /A2 : To activate mono or stereo sound.

7) AUTO : automatic channel search.

8) PROG+ :to switch on channel.In MENU mode,enables to move the cursor up.

9) PROG- : to switch on channel.In MENU mode,enables to move the cursor down.

10) VOL- : to decrease the volume and also to modify the cursor direction.

11) VOL+ : to increase the volume and also to modify the cursor direction.

12) MENU :

> Press once to adjust the image.
>
> Press twice to adjust channels.
>
> Press three times to get the generalities Menu.

13) EXIT : to exit from the MENU.

14) PAGE UP : to go to the following page.

15) PAGE DOWN :to go to the previous page.

16) TEXT : to display teletext.

17) MIX : combination of image and teletext.

18) HOLD : pause.

19) PICTURE : to return to the image.

20) INDEX : presentation page.

21) SIZE : to enlarge the picture.

22) REVEAL : to display or hide concealed information.

23) SUBPAGE : to return to the page.

24) RED-GREEN-YELLOW-CYAN : direct access to headings.

Remote Controller

Connection steps：

- Make sure that the power of the LCD-TV is off;

- Connect the SCART cable to the corresponding interface on the LCD-TV;

- Turn on the power;

- Use key **INPUT** to set the video input mode of the LCD-TV to SCART mode;

- You can use key ◀**VOL/VOL** ▶ to adjust the volume directly. And you can use key **MUTE** on the remote control to turn off the sound;

- You can use key **POWER** to turn off the LCD-TV.

Basic operations of LCD-TV

Turn on the LCD-TV

When the power is on, the indictor light will be orange or green(TV mode) . Once signal is received,the light will turn green. And it will remain orange if there is no signal. When set is on ,the input mode will be displayed on the screen.The indicator Light will be turned off in standby mode.

note：

The display of the input mode

will disappear in 3 seconds.

Switch among TV/SCART/CVBS/SVIDEO/RGB

Press key **INPUT** and choose the input mode you want. When you press key **INPUT** each time, TV,SCART, CVBS, SVIDEO, RGB will appear on the screen in a cycle.

note：

The display of the input mode will disappear in 3 seconds.

Base operation（continue）

Audio control

1、 Press key **VOL**▶ to turn up the volume, and there is a bar with numbers on the screen indicating the loudness.
2、 Press key◀ **VOL** to turn down the volume and also there is a bar with numbers on the screen indicating the loudness.

Mute :

1、 Press key **MUTE** to turn off the sound temporarily and a sign will appear on the screen.
2、 Press key **MUTE** again, the mute status will be cancelled and the sign will disappear.

note：

When you press key **POWER**, the mute status will be canceled automatically.

Enter a standby status

1、Press key **POWER,** the unit will enter a standby status and the indicator light will turn red at the same time.

2、Press key **POWER** again, the unit will exit the standby status and the indicator light will turn orange(no signal inputting) or green(signal inputting).

Select the TV channel you want

You can use **Channel Select** on the remote control to select TV channels directly.

The unit can store **199** channels （1 to 199）, and you can press the keys on the remote control or on the panel to make a selection.

1、Press the relevant key on the remote control if you want to choose any channel from 0 to 9.（for example: if you want to choose channel 8, just press the key number 8.）

2、If you want to choose a channel bigger than 9, please press key **-/--** at first, and then press the number you want.

（for example: select channel 45）

(1)、Press key **-/--**;

(2)、Press key number 4；

(3)、Press key number 5。

note

• Use the second way to select a channel, you should finish all steps in 4 seconds.

• Use key -/-- to switch between stations 0~9 and 10~199.

Use key **CH** （▲）/（▼）on the remote control the panel to select the channel you want.
Press key **CH** （▲）**,** and the channel will be changed as follows:
2→3→…→198→199→1→2→3…
Press key **CH** （▼）**,** and the channel will be changed as follows:
3→2→1→199→198→…→4→3

3.Auto search TV proglams

(surely that you have Used key **INPUT** to set the video input mode to **TV** model)

You can press key **menu** on the remote control and use key **CH+** or **CH-** select **Auto Scan**, then press key **VOL+** begin to search the TV proglams.

When you want to stop the search ,you can press key **VOL-.**

TELETEXT

• Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
• Pressing the Picture button whilst in Teletext operation will switch the current status to TV .
• When in Teletext mode, the volume may still be altered to the desired listening level, after pressing ◄ VOL/VOL► or MUTE button.

Page Selection
Pages can be selected in two ways:
a. Press Page Up or Page Down to increase or decrease the page number by one.
b. By entering the page number, using 0-9 on the remote control.

Size Button
Press Size to change display size : normal => large top => large bottom => normal.

Reveal Button
Press Reveal to reveal hidden words e.g. quiz page answers. Press again to hide.

Red/Green/Yellow/Cyan Buttons
These four buttons correspond to the differently coloured subjects.

Hold Button
Press Hold to remain the Teletext page when viewing multi-page information Press again to return to automatic page update.

Index Button
Press **Index** to return to the main index page.
Depending on the way information is transmitted, this may have to be pressed more than once to return to the main index page.

Subpage Button
When Teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require.

It is possible to enter your required sub page and continue watching the normal programme until the correct sub page is found.

Select the required page number using buttons 0-9.

If the top of the page indicates that sub pages are being transmitted yet the page does not change, then the number at the top of the page is there to indicated that the broadcaster has updated the page's contents, there are no sub pages.

Press **Subpage**, page number/---- will be displayed at the Bottom right of the screen.

Enter desired sub page number before the page number/---- disappears. To select page 6 enter 0,0,0 and 6.

Text Button

Press **Text** to enter Teletext mode and only the text page can be visible.

Mix Button

Press **Mix** to enter Teletext mode and both the TV picture and text page can be visible.

Picture Button

Press **Picture** to turn off the Teletext.

NICAM/A2

Usually set to **stereo** to provide the best reproduction,but if reception deteriorates or if the service is not

Available then switch to **Mono**.

Mono(M1) and **(M2)** can also be selected if a mono signal is being transmitted.

NICAM/A2 Button

Press **NICAM/A2** to switch sound mode.

Specifications

LCD Panel

Type	TFT-LCD
Screen Size	17 inch
LCD Panel Type	1280 x 768 pixels
Viewing Angle (U/D/L/R)	80/80/80/80
Display Colors	16.7m
Active Area (mm)	370.560x222.336
Contrast Ratio	400:1
Brightness	450cd/m²
Response Time	≤20ms
Resolution	1280 x 768 @ 75Hz

Features

OSD Controls	Brightness/Contrast
	Horizontal & Vertical Position
	Multilanguage
	Program Number
	Audio Volume, Tone and Balance Control
Inputs	Audio (Stereo Line in)
	Composite Video: adaptive 4H comb filter
	S-Video
	Scart
TV	TV Tuner
	75Ω Aerial Jack
	Pre-set channel 100
Systems	PAL BG/DK/I
	SECAM BG/DK
	NTSC
Teletext	Europe 10 Page
Output	2x3W Speaker
Power	12V DC

Trouble Shooting

Before calling for repair, please try whether you can settle the problem by yourself. Please contact with after-service center or dealer if you need a help.

Problem	Items to be checked
No red lighting indication	Make sure that the power cord and the other cords are securely connected.
The color/hue does not show properly	Adjust the Contrast Radio, Color and Hue incorrectly.
Stain show on the screen	May be result in disturb lighting from car motor or neon light and electric.
Stripe show on the screen	May be result in the electric wave disturb from other TV, Computer and Game machine or Radio.
Double or multiple display image	Maybe result in the radio electric wave echo from mountain or building check the direction of the antenna.
Disturbed the snow flare image	The line connecting with Antenna may be broken or loss.
Remote controller out of working	Check the battery finished and change the polarity of battery.
"Zip" made noise in TV cover	Under the situation of normal showing image display and sounds ,the cover of TV will be retractile make the noise sometimes according to the change of the environments temperatures.

Accessories List

Contents	Amount
Power Cable	1
Adapter	1
Audio Cable	1
Remote Controller	1
User's Manual	1
2x AAA Batteries	1